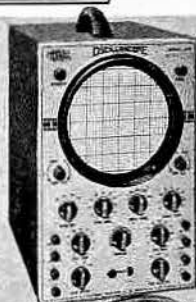




460-K



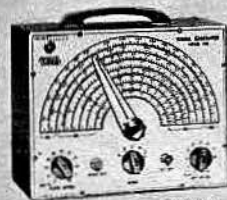
470-K



315-K



425-K



320-K



360-K



324-K



368-K

MODEL 460-K 5" OSCILLOSCOPE KIT

Wide-band scope for lab and color TV use. Response flat from DC to 4.5 mc—usable to 10 mc. Accurately reproduces 3.58-mc color TV sync burst. 4-step attenuator in both DC and AC position. Vertical sensitivity 25 mv/inch. Built in voltage calibrator. Full-screen DC vertical positioning and 2X full-screen horizontal positioning. Automatic sync limiter and amplifier eliminates sync voltage adjustment. Sweep: 10 cps to 100 kc, plus low frequency sweep with external capacitor. Graph screen has variable illumination. Push-pull vertical amplifier, voltage regulated. Cathode follower inputs. With all tubes, CRT, all parts, instructions. 13x8 1/2x16". Less solder. For 105-125 v., 50-60 cycle AC. Shpg. wt., 26 lbs.

83 FZ 193, NET. 79.95
 MODEL 460, As above, but factory-wired.
 84 FZ 668, NET. 129.50

MODEL 470-K 7" OSCILLOSCOPE KIT

Push-pull amplifiers and cathode follower inputs to both vertical and horizontal sections. Wide-range sweep frequency generator (15 cps to 100 kc). Intensity modulation, external sync inputs, saw-tooth and line frequency outputs—all on front panel. Internal voltage calibrator. Frequency response: Vertical amplifier, flat within ± 2 db from 10 cps to 1 mc with sensitivity of .01 volt rms/inch; horizontal amplifier, ± 2 db from 10 cps to 500 kc with sensitivity of .3 volt rms/inch. Input impedance: Vertical, 3 megs and 35 mmf; horizontal, 1 meg and 40 mmf. Graph screen. 15x15x10". With all tubes and parts. Less solder. For 105-125 v., 50-60 cycle AC. Shpg. wt., 35 lbs.

83 FZ 174, NET. 79.95
 MODEL 470, As above, but factory-wired.
 84 FZ 343, NET. 129.50

OSCILLOSCOPE TV PROBES

For signal and waveform tracing, alignment applications and other test procedures. Probes are fully shielded. Rugged terminal board mounting of parts. All have swivel-action, shock-mounted construction. Av. shpg. wt. 5 oz.

MODEL PSD-K Demodulator Probe Kit.
 83 F 180, NET. 3.75
 MODEL PSD, As above, but factory wired.
 84 F 653, NET. 5.75
 MODEL PD-K Direct Probe Kit.
 83 F 181, NET. 2.75
 MODEL PD, As above, but factory wired.
 84 F 654, NET. 3.95
 MODEL PLC-K Low Capacity Probe Kit.
 83 F 182, NET. 3.75
 MODEL PLC, As above, but factory wired.
 84 F 655, NET. 5.75

MODEL 425-K 5" OSCILLOSCOPE KIT

For AM, FM and TV. Push-pull outputs in horizontal and vertical amplifiers for balanced deflection. Sensitivity, .05 to .1 rms volt/inch. Range, 5 cps to 500 kc, usable to 2.5 mc. Input imped. 1 megohm. Wide-range multi-vibrator sweep circuit, 15-75,000 cps. Provision for external sync., Z-modulation and direct input to CR tube plates. Calibrating voltage terminal on panel. Graph screen. Uses: 3-6SN7, 2-6J5, 5BP1 Cathode Ray tube, 2-5Y3GT. With tubes, portable case, all parts, wire, instructions, and operating manual. Less solder. 8 1/2x17x13". For 105-125 v., 50-60 cycle AC. Shpg. wt., 30 lbs.

83 FZ 155, NET. 44.95
 MODEL 425, As above, but factory-wired.
 84 FZ 392, NET. 79.95

MODEL 368-K SWEEP & MARKER GENERATOR KIT

Sweep generator and marker for highly accurate alignment of FM, color and black-and-white TV. Covers 3 to 216 mc in 5 ranges. Variable frequency marker provides output from 2 to 75 mc on fundamentals; to 225 mc on harmonics. Sweep width is variable from 0-30 mc. Supplied with built-in 4.5-mc crystal marker for oscillator. Provides dual markers for RF or IF alignment. Provision for adding external marker. Continuously variable sweep and marker attenuators. Has retrace blanking. Output impedance, 50 ohms. Edge-lit hairlines for high tuning accuracy. 6:1 vernier tuning mechanism. Tubes used: 12AT7, 12AV7, 12AX7, 6AU6, 12B4, 6X4, rectifier, selenium bias rectifier. 8 1/2x13 1/2x7 1/4". With all tubes, parts and instructions. Less solder. For 105-125 v., 50-60 cycles AC. Shpg. wt., 16 lbs.

83 FX 950, NET. 69.95
 MODEL 368, As above, but factory-wired.
 87 FX 225, NET. 119.95

MODEL 360K SWEEP GENERATOR KIT

Every advanced feature needed for quick, easy, and accurate alignment of TV or FM receivers. For video IF alignment and response curve adjustment, sound IF and sound detector adjustment. Covers 500 kc to 228 mc. Variable sweep, 0-30 mc. Crystal marker oscillator with variable amplitude. Provision for injection of external marker. Phase control. 8 1/2" vernier tuning dial. Center of each TV channel is marked on front panel. Uses 6C4, 2-6J5, 7193; 6X5GT rectifier. With tubes, parts, instructions. Less 5-mc crystal and solder. 10x8x6 1/4". For 105-125 v., 50-60 cycle AC. Shpg. wt., 12 lbs.

83 F 159, NET. 34.95
 MODEL 360, As above, but factory-wired.
 84 FX 342, NET. 49.95

MODEL 324-K

RF SIGNAL GENERATOR KIT

Provides modulated or unmodulated RF signal. For signal tracing and IF-RF alignment of AM, FM, TV receivers. Has expanded frequency range of 6 fundamental bands: 150-400 kc, 400-1200 kc, 1.2-3.5 mc, 3.5-11 mc, 11-37 mc and 37-145 mc. One harmonic band covers 111-435 mc. Calibration accuracy is $\pm 1.5\%$. Output impedance, 50 ohms. Internal modulation of 400 cps variable from 0 to 50%; can be used for audio testing. Input has gain control for use with external modulator. Colpitts RF oscillator is directly modulated by cathode follower. Fine and coarse RF attenuators. With tubes and all parts. Less solder. 8x10x4 1/4". For 105-125 v., 50-60 cycle AC. Shpg. wt., 10 lbs.

83 F 192, NET. 26.95
 MODEL 324, As above, but factory-wired.
 84 F 666, NET. 39.95

MODEL 315-K DELUXE

RF SIGNAL GENERATOR KIT

For AM, FM, TV servicing. 1% accuracy from 75 kc to 150 mc. 9" illuminated dial. Vernier tuning. Provision for external modulation. Internal 400-cps sine wave generator with attenuator for RF modulation and external audio testing. Uses 7F7, 6C4; VR150, and 6X5 rectifier. 12x13x7". Less solder. For operation from 105-125v., 50-60 cycle AC. Shpg. wt., 20 lbs.

83 FZ 162, NET. 39.95
 MODEL 315, As above, but factory-wired.
 84 FZ 395, NET. 59.95

MODEL 320-K

RF SIGNAL GENERATOR KIT

Well-designed circuit uses a stable Hartley oscillator. Covers 150 kc to 34 mc on fundamentals—to 102 mc on harmonics. 400-cps modulation. Has 9" dial calibrated in 7 bands. Complete with tubes, portable case, parts, shielded cable, instructions, etc. Less solder. 10x8x4 1/4". For 105-125 v., 50-60 cycle AC. Shpg. wt., 10 lbs.

83 F 154, NET. 19.95
 MODEL 320, As above, but factory-wired.
 84 F 394, NET. 29.95

MODEL 322-K RF GENERATOR KIT

Accurate 150 kc to 34 mc generator. Individual calibration for each of 5 bands. Switch selects pure RF, modulated RF or pure 400 cycle AF. Shielded RF and AF attenuators. With 6SN7; 6X5 rectifier. Steel case, 10x8x4 1/4". Instructions. Less solder. For 105-125 v., 50-60 cycle AC. Shpg. wt., 10 lbs. (Not illustrated.)

83 F 168, NET. 23.95
 MODEL 322, As above, but factory-wired.
 84 F 396, NET. 34.95



666-K



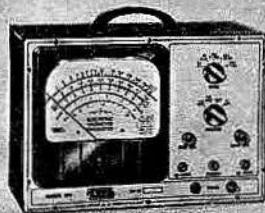
565-K



536-K



625-K



214-K



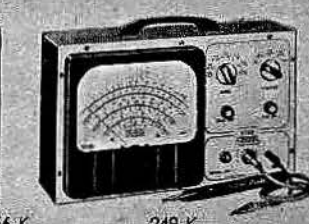
221-K



232-K



556-K



249-K

MODEL 536-K**STANDARD MULTIMETER KIT**

Ideal low-cost unit for servicemen. 31 ranges, 3" meter. Ranges: AC and DC volts: 0-1.5-10-50-100-500-5000 at 1000 ohms/volt; resistance, 0-500, 0-100,000 ohms, 0-1 meg; AC and DC current, 0-1-10 ma and 0-0.1-1 amp; 6 decibel ranges, -20 to +69 db. With bakelite case, wire, battery and instructions. Less leads and solder. Size: 6½x3½x2". Shpg. wt., 3 lbs.

83 F 171. NET.....12.90

MODEL 536. As above, but factory-wired.

84 F 345. NET.....14.90

MODEL 526-K KIT. As above, but with 1% resistors. Shpg. wt., 3 lbs.

83 F 166. NET.....13.90

MODEL 526. As above, but factory-wired.

84 F 390. NET.....16.90

MODEL 565-K 20,000 OHMS-PER-VOLT MULTIMETER KIT

Has 31 ranges: DC, AC and output volts, 0-2.5-10-50-250-1000-5000 (DC at 20,000 ohms per volt, AC at 1000 ohms per volt); DC current, 0-100 microamps, 0-10-100-500 ma, and 0-10 amps; resistance, 0-2000-200,000 ohms and 0-20 megohms. Five db ranges, -12 to +55. 4½" meter. 6½x5½x3". With batteries, all parts, wire, instructions. Less leads, solder. Wt., 4 lbs.

83 F 172. NET.....24.95

MODEL 565. As above, but factory-wired.

84 F 346. NET.....29.95

MODEL 555-K KIT. Same as 565-K above, but with 1% resistors. Wt., 4 lbs.

83 F 167. NET.....29.95

MODEL 555. As above, but factory-wired.

84 F 391. NET.....34.95

VTVM PROBE KITS

Av. shpg. wt. 1 lb.

83 F 188. Model PTP-25-K. Peak-

to-peak probe kit. NET.....4.95

84 F 661. Model PTP-25. As above, but

factory wired. NET.....6.95

83 F 189. Model PRF-25-K. RF Probe Kit.

NET.....3.75

84 F 662. Model PRF-25. As above but

factory wired. NET.....4.95

83 F 196. Model PRF-11K. RF Probe Kit.

NET.....3.75

83 F 197. Model PRF-11. As above but

factory wired. NET.....4.95

MODEL HVP-2 HIGH VOLTAGE PROBES. For

adapting VTVM units to read up to 30,000

volts. Factory-wired and tested.

84 F 663. For Models 214, 221. NET 4.95

84 F 669. For Models 232, 249. NET 4.95

MODEL 232-K**VACUUM-TUBE VOLTMETER KIT**

A high-quality, moderately-priced service instrument. Balanced-bridge circuit provides accuracy and stability. Meter movement protected against burn-out. Easy-to-read 4½" scale. 1% multiplier resistors. Easily calibrated without removal from case. "Uni-Probe" provides convenient high impedance input. Half turn of probe tip selects DC or AC/ohms. Measures peak-to-peak or rms values of AC waves. Ranges: p-p volts, 0-4-14-42-140-420-1400-4200 volts; DC/rms volts, 0-1.5-5-15-50-150-500-1500 volts; resistance 0 to 1000 megohms in 7 ranges. Has zero-center scale for TV and FM discriminator alignment. Tubes: 12AU7, 6AL5, selenium rectifier. Size: 7x4x5". Less solder. For 105-125 volts, 50-60 cycle AC. Shpg. wt., 7 lbs.

83 F 186. NET.....29.95

MODEL 232. As above, but factory-wired.

84 F 659. NET.....49.95

MODEL 249-K DELUXE**VACUUM-TUBE VOLTMETER KIT**

All of the features of model 232-K (above) plus the extra convenience and readability of its big 7½" meter. An ideal bench instrument for a lab or shop. Size: 8½x13x5". Less solder. Shpg. wt., 9 lbs.

83 F 187. NET.....39.95

MODEL 249. As above, but factory-wired.

84 F 660. NET.....59.95

MODEL 221-K**VACUUM-TUBE VOLTMETER KIT**

An easy-to-build, sensitive VTVM for making measurements in high-resistance circuits. 20 ranges, with DC input resistance of 25 megohms. 4½" meter is protected against burnout. Includes zero center for alignment of FM and TV discriminators. Dual-triode balanced bridge, 1% multiplier resistors. Ranges: AC-DC volts, 0-5-10-100-500-1000; extends to 30,000 volts and 200 mc with HVP-2 and PRF-25 probes; resistance, 0-1000 ohms 0-1-10-100-1000 megohms; db -20 to +55. Tubes used: 6H6, 6SN7; and 6X5 rectifier. With leads, less solder. 6x9½x5". For 105-125 volts, 50-60 cycle AC. Shpg. wt., 10 lbs.

83 F 152. NET.....25.95

MODEL 221. As above, but factory-wired.

84 F 389. NET.....39.95

MODEL 214-K DELUXE**VACUUM-TUBE VOLTMETER KIT**

All the versatility and performance-proven features of Model 221, plus the extra convenience and legibility of its big 7½" meter. 13½x9x6". Shpg. wt., 11 lbs.

83 F 170. NET.....34.95

MODEL 214. As above, but factory-wired.

84 F 344. NET.....54.95

MODEL 625-K TUBE TESTER KIT

Short and open test for each element. Full-vision, bakelite-cased meter. Easy to read Replace-Weak-Good scale. An overload bulb indicates transformer overload and also serves as fuse. Rugged steel case. Illuminated, "speed-roll" chart—speeds location and setting up. Lever-action switches for individual testing of every tube element. Knock-out for addition of new socket. Handsome three-color panel. 4½" meter. Less solder. For 105-125 v., 60 cycle, AC. 12½x9½x4¼". Shpg. wt., 12 lbs.

83 FX 161. NET.....34.95

MODEL 625. As above, but factory-wired.

84 FX 397. NET.....49.95

MODEL L-1. Lid (cover) for 625-K or 625.

83 F 880. NET.....3.98

666-K TUBE & TRANSISTOR TESTER KIT

This versatile tester indicates mutual conductance, plate conductance and peak emission capability of tubes—also measures transistor collector current and shows current amplification factor. Ten 6-position switches plus 2 lever switches permit simultaneous selection of any one of 4 combinations of 3 plate, 3 screen and 3 ranges of control grid voltages. 200 µa meter provides direct readings of leakage up to 20 megohms; 5 ranges of meter sensitivity. 12x15x4½". Less solder. For 105-125 v., 50-60 cycle AC. Shpg. wt., 18 lbs.

83 FX 198. NET.....69.95

MODEL 666. As above, but factory-wired.

87 FX 226. NET.....109.95

MODEL CRA PICTURE TUBE ADAPTER

(Not illus.) Adapts 625 and 666 tube testers for checking all sizes of TV picture tubes. Measures cathode emission. Tests for filament continuity, shorts between elements. With standard 12-pin socket, octal connector and 4-ft. cable. Wt., 2 lbs.

84 F 348. NET.....4.50

NEW MODEL CRA-110. Same as above but

with eight 8-contact socket for checking 110 deg. deflection tubes. Shpg. wt., 1 lb.

83 F 879. NET.....3.95

MODEL 556-K STANDARD**MULTIMETER KIT—WITH 4½" METER**

Has 400-microamp movement. 38 full-scale ranges: DC, AC and output volts, 0-1-5-10-50-100-500-5000 (at 1000 ohms per volt); AC and DC current, 0-1-10 ma and 0-0.1-1 amp; resistance, 0-500-100,000 ohms and 0-1 megohm. Six db ranges, -20 to +69. Accuracy, DC ±3%, AC ±5%. With case, wire, battery and instructions. Less leads and solder. 6½x5½x3". Wt., 4 lbs.

83 F 173. NET.....16.90

MODEL 556. As above, but factory-wired.

84 F 347. NET.....23.50



TEST EQUIPMENT



MODEL 950B-K RESISTANCE-CAPACITANCE BRIDGE KIT

A precision instrument for the laboratory or service shop. This unit provides for quick, accurate tests of component values. Combines a resistance-capacitance bridge and R-C-L comparator in one unit.

Measures and tests resistors from 0.5 ohm to 500 megohms in 4 ranges, and capacitors from 10 mmf to 5000 mfd in 4 ranges. One direct-reading scale gives both resistance and capacitance values. A ratio scale is provided for comparison of resistance, capacitance, or inductance values to any external standard. Reads ratios from .05 to 20 (400 to 1). Substitution boxes and decades, also listed on this page, make good external standards. "Magic eye" tube serves as null indicator. Continuously variable 0-500 volt DC source permits checking capacitors under rated voltage. Tests capacitors for shorts, leakage, and (in the case of electrolytics) power factor. 6" dial. Tubes: 1-1629, 1-6X5 (rectifier). Transformer-type power supply provides line isolation. Satin finished etched aluminum panel gray-wrinkle case, 10x8x4 1/4".

With case, panel, parts, tubes, wire, and instructions. Less solder and leads. For operation from 105-125 volts, 50-60 cycle AC. Shpg. wt., 10 lbs.

83 F 164. NET. 19.95

MODEL 950B. As above, but factory-wired.

84 F 387. NET. 29.95



MODEL 1100-K RESISTANCE SUBSTITUTION BOX KIT

A handy, versatile, time-saving instrument with a wide variety of applications. Helps to determine the value of an unmarked or illegible resistor. With a circuit in operation, resistance values can be changed to give optimum performance. In servicing or development, several Model 1100's give the flexibility needed to change circuit values quickly. Easy to use—simply disconnect one end of the resistor in question, and attach the substitution box with test leads. The best resistance value can then be selected by adjusting the box. This value of resistance can then be wired into the circuit. Resistance range from 15 ohms to 10 megohms in decade multiples of 15, 22, 33, 47, 68 and 100 ohms, 36 RETMA 1-watt 10% resistors. 5-way jack-top binding posts for connecting any type test leads. Black bakelite case, with 2-color etched aluminum panel, 3 1/2 x 6 1/2 x 3 1/2". Less solder and leads. Shpg. wt., 2 lbs.

83 F 179. NET. 5.95

MODEL 1100. As above, but factory-wired.

84 F 652. NET. 9.95



352-K



377-K



488-K



1171-K



495-K



1120-K



1180-K

MODEL 352-K BAR GENERATOR KIT

For adjusting vertical and horizontal linearity. A valuable instrument for use in shop and on service calls. Produces 16-23 vertical and 13-22 horizontal bars when connected to antenna terminals (number of bars is adjustable). Since bars will be equally spaced on a correctly adjusted set, a quick indication is obtained of the picture linearity of TV set under test. Also indicates vertical and horizontal sync circuits. Video carrier oscillator is tunable over channels 2-6, 3-way antenna clip. Less solder. Size, 7 1/2 x 5 1/4". For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 4 lbs.

83 F 178. NET. 14.95

MODEL 352. As above, but factory-wired.

84 F 651. NET. 19.95

MODEL 377-K AUDIO GENERATOR KIT

Provides sine and square waves. 1% resistors in Wien bridge-type oscillator circuit. Sine wave: 20-200,000 cps in 4 bands, ± 1.5 db, from 60-150,000 cps, less than 1% distortion. Square wave: 60-50,000 cps in 4 bands, 5% tilt at 50 cps, 5% rounding at 50,000 cps. Output (sine or square wave): 10 volts across rated load of 1000 ohms. Cathode follower output. Hum less than 0.4% of rated output. Calibration accuracy $\pm 3\%$ or 1 cps, whichever is greater. 6 1/2" dial has 0-100 reference scale. 7 1/2 x 11 1/4 x 7 3/4". With tubes, wire and instructions. Less solder and leads. For 105-125 v., 50-60 cycle AC. Wt., 14 lbs.

83 FX 169. NET. 31.95

MODEL 377. As above, but factory-wired.

84 FX 349. NET. 49.95

MODEL 488-K ELECTRONIC SWITCH KIT

Allows simultaneous observation of two patterns on the screen of a scope. Amplitudes of two patterns are separately adjustable by gain controls in each channel. Patterns may be superimposed or separated with positioning control. Switching rates: Low range, 10-100 cps; mid-range, 50-400 cps; high range 250-2000 cps, all continuously variable. Freq. resp. 0-30,000 cps 2 db; usable to 300,000 cps. With tubes, instructions; less solder and leads. For operation from 105-125 v., 50-60 cycle. Size, 6x8x6". Shpg. wt., 7 lbs.

83 F 185. NET. 23.95

MODEL 488. As above, but factory-wired.

84 F 658. NET. 39.95

MODEL 495-K SCOPE VOLTAGE CALIBRATOR KIT

Injects a calibrated, semi-square wave on the scope screen for comparison with any waveform. Ranges: .1, 1, 10 and 100 volts peak-to-peak. Continuously calibrated output from 0 to 100 volts. Uses 1% decade attenuator resistors. Switch permits transfer of signal under observation directly to scope. Calibrator can be permanently connected to scope. Regulated power supply, 5x7 1/2 x 4". Less solder and leads. For 105-125 v., 50-60 cycle. Shpg. wt., 4 lbs.

83 F 176. NET. 12.95

MODEL 495. As above, but factory-wired.

84 F 384. NET. 17.95

MODEL 1120-K CAPACITOR SUBSTITUTION BOX KIT

For rapidly substituting a wide range of RETMA capacitance values. A time-saving instrument for laboratory and service shop use. Provides capacitance values from 0.0001 to 0.22 microfarads in 18 steps. Determines values needed for optimum performance, or values of badly damaged or otherwise illegible capacitors. Can be used with Model 1100 Resistance Substitution Box to determine the best values for differentiating, integrating, and other wave shaping R-C circuits, 18-position rotary switch. Accuracy, $\pm 10\%$. Most of capacitors rated at 600 v.; others 400 v. 5-way jack-top binding posts take any type of test lead. Black bakelite case; attractive two-color etched aluminum panel. Size, 3 1/2 x 6 1/2 x 3 1/2". Supplied complete with all parts and instructions; less solder and leads. Shpg. wt., 2 lbs.

83 F 191. NET. 5.95

MODEL 1120. As above, but factory-wired.

84 F 665. NET. 9.95

MODEL 1171-K RESISTANCE DECADE BOX KIT

An excellent unit for use in general design and development work. Can be used as a known resistor with Model 950B or any other bridge, for ohmmeter calibration, determination of meter multiplier resistance values. Also makes a very accurate resistance substitution box. Supplies resistance values from 0 to 99,999 ohms in 1-ohm steps with 5 decades with 1/2% accuracy. Uses 1/2-watt resistors. Has 5 separate 10-position switches. Ideal low-cost unit for the experimenter and builder. Comparator position and binding posts for instant substitution of actual equivalent component. Satin finish deep-etched aluminum panel. Heavy-gauge steel cabinet with gray wrinkled finish. Size: 3 1/2 x 12 x 3". Less solder, leads. Shpg. wt., 3 lbs.

83 F 165. NET. 19.95

MODEL 1171. As above, but factory-wired.

84 F 388. NET. 24.95

MODEL 1180-K DECADE CAPACITOR BOX KIT

For general design and development work. Useful in every laboratory as tuned circuit elements, bridge impedances, filter elements or components of any circuit where a wide range of capacitance is necessary. Permits rapid determination of proper capacitance values. Range: 100 mmf to .111 mfd in steps of 100 mmf; voltage rating 350 volts DC continuous, 500 volts intermittent. Mica capacitors are $\pm 1\%$. Zero capacitance approx. 7 mmf. Positive detent, ceramic wafer switches. 5-way jack-type binding posts take any type of test lead. Low-loss lucite terminal board. Satin finish etched aluminum panel with gray wrinkled steel case. Size: 9x3 1/2 x 3". With panel, case, parts, and instructions. Less solder and leads. Shpg. wt., 3 lbs.

83 F 183. NET. 14.95

MODEL 1180. As above, but factory-wired.

84 F 656. NET. 19.95



MODEL 944-K FLYBACK TESTER KIT

Very useful for color or monochrome TV servicing. Spotting a defective flyback transformer or yoke—formerly a very difficult job—becomes quick and easy with this instrument. Also checks continuity of yokes, speakers, etc. Provides positive check of all types of flybacks and yokes. Operating on the extremely sensitive grid-dip principle, it shows even 1 shorted turn. Separate calibration for air-core and iron-core flybacks for more accurate testing. Has easy-to-read $4\frac{1}{2}$ " meter with 3 separate colored scales. Satin finish aluminum panel. Gray wrinkle steel case with convenient carrying strap. Size: $8\frac{1}{2} \times 5 \times 5\frac{1}{2}$ ". Less solder. For operation from 105-125 v., 50-60 cycle AC. Shpg. wt., 5 lbs.

83 F 184. NET. 23.95

MODEL 944. As above, but factory-wired.

84 F 657. NET. 34.95

MODEL 584-K BATTERY TESTER KIT

Designed for quick testing of all portable radio "A" and "B" batteries in or out of the receiver. Tester provides correct current drain for accurate measurement. Will also test lantern batteries, and can be adapted to test other types. A rotary switch selects the voltage of the battery under test, and inserts the proper resistors in series and shunt with the meter. Therefore the battery's internal resistance reduces its terminal voltage exactly as occurs when the battery is in service. Test switch positions (volts): 1.5, 4.5, 6.0, 7.5, 9.0, 22.5, 45, 67.5, 75, 90, plus a spare position. Has $3\frac{1}{2}$ " meter: calibrated: Good, Usable and Bad. Rugged, high-impact black bakelite case and deep-etched aluminum panel with satin finish. Size: $6\frac{1}{4} \times 3\frac{1}{4} \times 2\frac{1}{4}$ ". Less solder. With test leads. Shpg. wt., 2 lbs.

83 F 195. NET. 9.95

MODEL 584. As above, but factory-wired.

84 F 671. NET. 12.95

MODEL 540-K "REDI-TESTER" KIT

A very useful device for simplified repair work on home appliances and for checking automobile electrical systems. It is a combination AC/DC voltmeter, ammeter, ohm meter, wattmeter, and leakage tester. A rotary switch range selector provides easier, surer, and faster operation than comparable units. The instruction book contains an introduction to electricity, complete operating instructions, and procedures for common repair jobs. This versatile tester locates defects in irons, refrigerators, electric blankets, house wiring, furnace control systems, heaters, fans, etc. Will also check auto batteries, regulators, starters, ignition coils, direction signals, horns, switches, etc.

Ranges: AC-DC volts, 0-7.5, 15, 150, 300. Current (AC or DC), 0-15 amps. Resistance, 0-1000 ohms. Leakage test of capacitors above .0005 mfd and resistors between 1000 and 2 megohms. $3\frac{1}{2}$ " meter. Has handsome, etched aluminum panel and black bakelite case. With leads. Less solder. Size: $6\frac{1}{2} \times 3\frac{1}{4} \times 3\frac{1}{2}$ ". Shpg. wt., 3 lbs.

83 F 199. NET. 12.95

MODEL 540. As above, but factory-wired.

84 F 667. NET. 15.95

MODEL 1050-K 6-12 VOLT BATTERY ELIMINATOR KIT

Work bench supply for 6 or 12 v. auto radios. Can be used as battery eliminator or charger. 2 DC ranges: 0-8 v. at 10 amps continuous, 20 intermittent; 0-16 v. at 6 amps continuous, 12 amps intermittent. Separate ammeter (0-20 amps) and voltmeter (0-20 v.). With steel case, parts, and instructions. Less solder. For 105-125 volts, 50-60 cycle AC. Size: $8\frac{3}{4} \times 10\frac{1}{2} \times 7\frac{3}{4}$ ". Shpg. wt., 15 lbs.

83 FX 175. NET. 29.95

MODEL 1050. As above, but factory-wired.

84 FX 341. NET. 38.95

MODEL 1055-K. An L-C filter for 1050 or any similar unit. Gives extra filtering needed for transistor auto radios. Size: $5 \times 4 \times 5\frac{1}{4}$ ". Shpg. wt., 7 lbs.

83 FX 877. NET. 11.95

MODEL 1055. As above, but factory-wired.

83 FX 878. NET. 15.95

MODEL 630-K CATHODE RAY TUBE CHECKER KIT

Tests television picture tubes in the set or the shipping carton—speeds servicing, saves time. Indicates shorted or open elements in the electron gun assembly. Can be used with any cathode ray tube having either electrostatic or magnetic deflection and focus.

Uses balanced bridge circuit to measure peak beam current (which is proportional to screen brightness). Neon lamp acts as a sensitive bridge balance indicator. Balancing control dial is calibrated to indicate tube condition directly. Supplied with two test sockets, each with $2\frac{1}{2}$ ft. of cable, for duodecal (12-pin) and diode (14-pin) tubes. Adapter cables plug into an octal socket on the panel. Cables are stored in case. Less solder. $6\frac{1}{2} \times 9\frac{1}{2} \times 3\frac{1}{2}$ ". For 105-125 volts, 50-60 cycle AC. Shpg. wt., 6 lbs.

83 F 177. NET. 13.95

MODEL 630. As above, but factory-wired.

84 F 650. NET. 18.95

MODEL 145-K MULTI-SIGNAL TRACER KIT

A useful aid to the serviceman and experimenter. Provides a quick method for locating the source of trouble in any radio, television set or audio amplifier. RF probe incorporates a germanium crystal diode with response to over 200 mc. Probe can be used for stage-by-stage check of IF, RF, video and audio circuits. Front panel jacks for external oscilloscope or VTVM—permits visual signal tracing. Built-in $4\frac{1}{2}$ " PM speaker and audio amplifier with volume control; can also be used as a low-power utility sound system for phonograph, intercom, public address, etc. Supplied with tubes, RF probe, and speaker. Less solder. Aluminum panel is handsomely styled, satin finished. For operation from 105-125 volts, 50-60 cycle AC. Size: $8 \times 10 \times 3\frac{1}{4}$ ". Shpg. wt., 11 lbs.

83 F 158. NET. 19.95

MODEL 145. As above, but factory-wired.

84 F 385. NET. 28.95

EICO

TEST EQUIPMENT



NEW MODEL 1060-K DELUXE BATTERY ELIMINATOR KIT

A rugged, powerful unit for operating any auto radio, including transistor models. Combines Model 1050-K battery eliminator and 1055-K filter (at left) in a single unit. Fits conveniently on the work bench or wall. Can be used as a battery charger or eliminator. An excellent addition towards a well-equipped service shop.

Features: 2 DC ranges with extra filtering and continuous adjustment by a variac; separate voltmeter and dual range ammeter for simultaneous readings; heavy duty selenium rectifiers; fused primary; automatic reset overload relay in secondary; strong, well ventilated steel case.

Specifications: Low range, 0-8 v., 10 amps continuous, 20 amps intermittent, 0.3% ripple at 2 amps, 1.5% at 10 amps; high range, 0-16 v., 6 amps continuous, 12 amps intermittent, 1.5% ripple at 2 amps, 2% at 6 amps; voltmeter range, 0-20 v.; ammeter, 0-10, 0-20 amps. For 105-125 v., 50-60 cycle AC. Size: $8\frac{3}{4} \times 10\frac{1}{2} \times 7\frac{3}{4}$ ". With case, parts, and instructions. Less solder. Shpg. wt., 19 lbs.

83 FX 875. NET. 38.95

MODEL 1060. As above, but factory-wired.

83 FX 876. NET. 47.95



MODEL 147-K DELUXE SIGNAL TRACER KIT

Versatile transformer-operated instrument. High and low-gain RF channels with internal wide-frequency range demodulator permits direct observation of actual transmitted signal. Has output for connection to VTVM or oscilloscope. May be connected as substitute speaker, output transformer, or amplifier. Heavy filtering and hum-balance control. Both visual and aural monitoring of all RF and AF channels—magic eye and 5" PM speaker. Calibrated wattmeter circuit indicates wattage consumption in unit under test. Has noise localizer circuit. Fully shielded RF crystal and audio probes. Tubes: 6K6, 6SQ7, 6SJ7, 1629 ("magic eye"); also 6x5 rectifier. Handsome, satin-finish etched aluminum panel, gray wrinkled steel case. Supplied with probes and easy-to-follow assembly instructions. Less solder. For operation from 105-125 volts, 50-60 cycle AC. Size: $9 \times 10 \times 5\frac{1}{2}$ ". Shpg. wt., 10 lbs.

83 F 190. NET. 24.95

MODEL 147. As above, but factory-wired.

84 F 664. NET. 39.95